IN THE CLAIMS

Claim 1 has been amended as follows:

1. (Currently amended) A method for testing a software system that operates a technical system, comprising the steps of:

operating a technical system with existing software installed at a medical facility to interact the technical system with patients of the medical facility for treatment or examination and, while said technical system is operated ~~during a normal usage time~~ for said interaction with at least one of said patients of the medical facility, generating a computerized operation model that mimics a reproducible operation procedure that occurs during said ~~normal usage time~~ interaction of said technical system with said at least one of said patients at said medical facility;

installing new software in said technical system of said medical facility for operating said technical system at said medical facility;

operating said technical system of said medical facility according to said operation model while using said new software system, during a non-normal usage time of non-interaction with patients of said medical facility, at said medical facility to obtain a test result for said software system; and

evaluating said test result to detect errors in said operation of said technical system caused by said new software.

Claim 2 has been amended as follows:

2. (Currently amended) A method as claimed in claim 1 ~~wherein the step of installing a software system comprises installing said technical system with an original software system and~~ further comprising operating said technical system with said ~~original~~ existing software system according to said operation model during said non-normal usage time to obtain baseline information, and using said baseline information in the evaluation of said test result.

Claim 3 has been amended as follows:

3. (Currently amended) A method as claimed in claim 1 comprising after operation and monitoring of said technical system of the medical facility according to said operation model during said non-normal usage time, reverting to said existing software to operate said technical system ~~in said normal usage time.~~

Claim 4 has been amended as follows:

4. (Currently amended) A method as claimed in claim [[2]] 1 comprising, from said evaluation of the operation of the technical system of the medical facility with the operation model, generating feedback and providing said feedback to a software developer.

Claim 5 has been amended as follows:

5. (Currently amended) A method as claimed in claim 4 comprising analyzing said feedback and developing an improvement of said ~~original~~ existing software system based on said feedback.

6. (Previously presented) A method as claimed in claim 1 comprising in generating said operation model, documenting, as protocol, at least one of input parameters, input data and boundary conditions of said technical system of said medical facility.

7. (Previously presented) A method as claimed in claim 6 comprising in generating said operation model, establishing limit values differentiating between error-free operation of said technical system and erroneous operation of said technical system.

8. (Previously presented) A method as claimed in claim 6 comprising in generating said operation model, automatically implementing an operation procedure associated with said technical system, in addition to said documenting.